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(FILE 'HOME' ENTERED AT 11:56:21 ON 26 MAR 2003)

FILE 'EUROPATFULL, PCTFULL, USPAT2, WPIDS' ENTERED AT 11:56:59 ON 26 MAR 2003

FILE 'EUROPATFULL, PCTFULL, USPATFULL, USPAT2, WPIDS' ENTERED AT 11:57:09

ON 26 MAR 2003

L1 22391 S RETINOL OR RETINAL OR RETINYL

L2 0 S L1(S) CIMBAZOLE

FILE 'CAPLUS' ENTERED AT 12:36:56 ON 26 MAR 2003

FILE 'REGISTRY' ENTERED AT 12:37:04 ON 26 MAR 2003

E CIMBAZOLE/CN

E CLIMBAZOLE

FILE 'EUROPATFULL, PCTFULL, USPATFULL, USPAT2, WPIDS' ENTERED AT 12:39:39

ON 26 MAR 2003

L3 35 S L1(S) CLIMBAZOLE

FILE 'USPATFULL' ENTERED AT 12:40:30 ON 26 MAR 2003

L4 11 S L3

L5 1 S L4 NOT PY>=2000

L5 ANSWER 1 OF 1 USPATFULL

ACCESSION NUMBER: 1998:14487 USPATFULL

TITLE: Skin care compositions containing fatty acid amides, azoles, and retinol or retinyl ester

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LEGAL REPRESENTATIVE:	Mitelman, Rimma		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
LINE COUNT:	958		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

DETD LINOLEOYL-DEA, **CLIMBAZOLE** AND **RETINOL**
SYNERGISTICALLY ENHANCED KERATINOCYTE PROLIFERATION AND INHIBITED
DIFFERENTIATION

DETD A. The effect of linoleoyl-DEA, **climbazole** and **retinol**
on incorporation of .sup.3 H-thymidine was examined. The results that
were obtained are summarized in Table 3A.

DETD TABLE 3A

EFFECT OF **RETINOL**, **CLIMBAZOLE** AND LINOLEOYL-DEA ON
KERATINOCYTE THYMIDINE INCORPORATION

	mean Thymidine	p value	p value	incorp/.mu.g protein	vs	vs	p value vs	p value.times. 10.sup.7 M
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RA	4845 .+- . 95 (130%)	0.001	0.001		--		* = 0.006			
							@ = 0.004			

2.5 .times. 10.sup.8 M Retinol	3788 .+- . 57 (102%)	0.275	--	0.001			* = 0.043			
							@ = 0.090			

2.5 .times. 10.sup.8 M ROH + 10.sup.8 M.							@ = 0.626			
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2.5 .times. 10.sup.8 M ROH + 10.sup.9 M	4056 .+- . 160 (109%)	0.048		0.090			0.004			
							* = 0.626			

Climbazole

2.5 .times. 10.sup.8 M ROH + 10.sup.8 M LADEA							--			
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@ = 0.015

TABLE 3B

2.5 .times. 10.sup.9 M ROH +10.sup.8 M LA-DEA

$$1.10 = 0.40 \text{ (72\%)} \\ 0.009 \text{ } 0.000 \text{ } 0.000 \text{ } 0.000$$

+ 10.sup.7 M **Climbazole**

n = 6

DETD . . . the more dilute 2.5.times.10.sup.-9 M retinoic acid was not as effective but still inhibited TG1 levels by 55%. 2.5.times.10.sup.-9 M **retinol**, 2.5.times.10.sup.-9 M **retinol**+10.sup.-8 M LADEA and 2.5.times.10.sup.-9 M **retinol**+10.sup.-8 M **climbazole** had no inhibitory effect on the keratinocyte TG1 level. However 2.5.times.10.sup.-9 M **retinol**+10.sup.-8 M LADEA+10.sup.-8 M **climbazole** significantly repressed keratinocyte TG1 to 83% of control levels. This inhibition was significantly greater than the control, ROH alone, ROH+LADEA and ROH+ **climbazole** indicating that the three ingredients, i.e., ROH, LADEA and **climbazole** act synergistically to inhibit keratinocyte TG1 levels. This effect was even greater when the **climbazole** concentration was increased by 10.times., i.e., 2.5.times.10.sup.-9 M+10.sup.-8 M LADEA+10.sup.-7 M **climbazole**, which resulted in this combination inhibiting TG1 levels to 72% of control. **Retinol**, fatty acid amides and **climbazole** therefore act synergistically to repress keratinocyte differentiation

in

an analogous manner to the effect of retinoic acid.

DETD

% w/w

Retinol	0.15
Palmitoyl-monoethanolamide	0.1
Climbazole	2
Ethanol	40
Antioxidant	0.1
Perfume	qs
Water	to 100

DETD

% w/w

Retinol	0.01
Linoleoyl monoethanolamide	0.1
Climbazole	0.1
Silicone oil 200 cts	7.5
Glycerylmonostearate	3
Cetosteryl alcohol	1.6
Polyoxyethylene-(20)-cetyl alcohol	1.4
Xanthan gum	0.5
Parsol 1789	1.5
Octyl methoxycinnate (PARSOL MCX)	7
Perfume	qs
Color	qs
Water. . .	